C. Amendment to the Claims

Please amend claims 6-13 and 15-26 as follows.

- 1. (Original) A metallic mirror comprising a substrate made of aluminum or an aluminum alloy, and an intermediate layer formed of TiO₂ and a metallic reflective layer formed of Cu which are superposed on the substrate in order.
- 2. (Original) The metallic mirror according to claim 1, which further comprises one or more protective layers provided on said metallic reflective layer.
- 3. (Withdrawn) The metallic mirror according to claim 1, which has a surface reflectance of 95% or higher.
- 4. (Withdrawn) The metallic mirror according to claim 1, which is a metallic rotary polygonal mirror.
- 5. (Original) The metallic mirror according to claim 2, wherein said protective layer is an aluminum oxide layer.
- 6. (Currently Amended) A metallic rotary polygonal mirror comprising:[[;]]

a metallic polygonal mirror substrate made of aluminum or an aluminum alloy;

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an intermediate layer of TiO₂ formed by vacuum deposition on the substrate;

a metallic reflective layer of Cu formed by vacuum deposition on the intermediate layer; and

a protective layer including at least a layer of Al_2O_3 , formed by vacuum deposition on the metallic reflective layer.

- 7. (Currently Amended) The metallic rotary polygonal mirror according to claim 6, wherein[[;]] said intermediate layer has a layer thickness of from 50 nm to 150 nm, and said metallic reflective layer has a layer thickness of from 80 nm to 150 nm.
- 8. (Currently Amended) The metallic rotary polygonal mirror according to claim 6, wherein[[;]] said protective layer comprises a double layer consisting of a first protective layer and a second protective layer.
- 9. (Currently Amended) The metallic rotary polygonal mirror according to claim 8, wherein[[;]] said first protective layer is a layer of Al₂O₃, and said second protective layer is a layer of SiO₂.

10. (Currently Amended) The metallic rotary polygonal mirror according to claim 9, wherein[[;]] said first protective layer has a layer thickness of from 150 nm to 200 nm, and said second protective layer has a layer thickness of from 10 nm to 20 nm.

- 11. (Withdrawn/Currently Amended) The metallic rotary polygonal mirror according to claim 6, wherein[[;]] said protective layer comprises a triple layer consisting of a first protective layer, a second protective layer and a third protective layer.
- 12. (Withdrawn/Currently Amended) The metallic rotary polygonal mirror according to claim 11, wherein[[;]] said first protective layer is a layer of Al₂O₃, said second protective layer is a layer of TiO₂, and said third protective layer is a layer of SiO₂.
- 13. (Withdrawn/Currently Amended) The metallic rotary polygonal mirror according to claim 12, wherein[[;]] said first protective layer has a layer thickness of from 150 nm to 200 nm, said second protective layer has a layer thickness of from 80 nm to 100 nm, and said third protective layer has a layer thickness of from 10 nm to 20 nm.
- 14. (Original) The metallic rotary polygonal mirror according to claim 6, which has a surface reflectance of 95% or higher.

15. (Withdrawn/Currently Amended) A process for producing a metallic rotary polygonal mirror, comprising the steps of:[[;]]

forming an intermediate layer of TiO₂ by vacuum deposition on a metallic polygonal mirror substrate metal comprised of aluminum or an aluminum alloy;

forming a high-reflectance metallic reflective layer of Cu by vacuum deposition on the intermediate layer; and

forming a protective layer including at least a layer of $Al_2O_3[[,]]$ by vacuum deposition on the metallic reflective layer.

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16. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] during the formation of said intermediate layer of TiO_2 , O_2 gas is added under a pressure of from 6.65 x 10^{-3} Pa to 26.6×10^{-3} Pa.

17. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] during the formation of said high-reflectance metallic reflective layer of Cu, the metallic reflective layer is formed after the inside of a vacuum deposition chamber reaches a degree of vacuum of 2.66 x 10⁻³ Pa or above subsequently to the formation of said intermediate layer of TiO₂ film.

metallic rotary polygonal mirror according to claim 15, wherein[[;]] in the formation of said protective layer including at least a layer of Al_2O_3 , when the layer of Al_2O_3 is formed on said high-reflectance metallic thin film of Cu, the protective layer is formed without addition of any O_2 gas at the initial stage of film formation until the film comes to have a layer thickness of 15 to 30% of a stated layer thickness, and further thereon, after the film has been formed beyond 15 to 30% and until it comes to have the stated layer thickness, with addition of O_2 gas under a pressure of from 6.65 x 10^{-3} Pa to 26.6 x 10^{-3} Pa.

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19. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] said intermediate layer is formed in a layer thickness of from 50 nm to 150 nm, and said metallic reflective layer is formed in a layer thickness of from 80 nm to 150 nm.

- 20. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] said protective layer is formed in a double layer consisting of a first protective layer and a second protective layer.
- 21. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 20, wherein[[;]] said first protective layer is a layer of Al₂O₃, and said second protective layer is a layer of SiO₂.

- 22. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 21, wherein[[;]] said first protective layer is formed in a layer thickness of from 150 nm to 200 nm, and said second protective layer is formed in a layer thickness of from 10 nm to 20 nm.
- 23. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] said protective layer is formed in a triple layer consisting of a first protective layer, a second protective layer and a third protective layer.
- 24. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 23, wherein[[;]] said first protective layer is a layer of Al₂O₃, said second protective layer is a layer of TiO₂, and said third protective layer is a layer of SiO₂.
- 25. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 24, wherein[[;]] said first protective layer is formed in a layer thickness of from 150 nm to 200 nm, said second protective layer is formed in a layer thickness of from 80 nm to 100 nm, and said third protective layer is formed in a layer thickness of from 10 nm to 20 nm.

26. (Withdrawn/Currently Amended) The process for producing a metallic rotary polygonal mirror according to claim 15, wherein[[;]] said metallic rotary polygonal mirror has a surface reflectance of 95% or higher.

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